

APPENDIX

1. (Amended) A connecting member for a sound generator comprising:

a pair of connecting spring plates;

each of the connecting spring plates having a first end connecting portion to be connected to a terminal of a sound generator, and a second end connecting portion to be connected to a circuit for operating the sound generator;

a surface of the first end connecting portion being treated [so as] to enable soldering [be soldered] to the terminal of the sound generator; and

a surface of the second end connecting portion being coated with gold by gold plating,

said coating with gold by gold plating being limited to the second end connecting portion and optionally to the first end connecting portion to enable soldering.

4. (Amended) The connecting member according to claim 1 wherein a portion of each of the connecting spring plates other than the first and second end connecting portions [are] is coated with nickel by nickel plating.

CLEAN VERSION

Fig. 3 is a perspective view of a conventional electromagnetic sound generator; and

Fig. 4 is a sectional perspective view showing another conventional electromagnetic sound generator.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring to Figs. 1 and 2, an electromagnetic sound generator 10 has a case 1 in which a buzzer is mounted. A pair of connecting spring plates 2 are extending from the upper surface of the sound generator 10 in parallel with each other.

Each of the connecting spring plates 2 is made of phosphor bronze or stainless steel so as to have elasticity in whole, and formed into an L-shaped form in plan view. The connecting spring plate 2 comprises a base end connecting portion 2A, intermediate portion 2C, branch portion 2D outwardly extending from the end of the intermediate portion 2C so as to form an L-shape together with the intermediate portion 2C, overlap portion 2E, and head end connecting portion 2B. The overlap portion 2E is formed by turning an end portion of the branch portion in U-shape.

The base end connecting portion 2A is bent in L-shape and the head end connecting portion 2B is bent in U-shape as a connecting portion between the sound generator and a printed circuit board.

The spring plate 2 is coated with nickel (Ni) by nickel plating as surface treatment. The surface of each of the connecting portion 2A to be connected to a terminal of the sound generator 10 is treated so that the connecting portion 2A can be connected to a terminal of the sound generator 10 by soldering. For example, the surface of the connecting portion 2A is coated with gold (Au) by gold plating or with a solder by solder plating. The surface of each connecting portion 2B to be connected to a terminal of the printed circuit

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Fig. 3 is a perspective view of a conventional electromagnetic sound generator; and

Fig. 4 is a sectional perspective view showing another conventional electromagnetic sound generator.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring to Figs. 1 and 2, an electromagnetic sound generator 10 has a case 1 in which a buzzer is mounted. A pair of connecting spring plates 2 are extending from the upper surface of the sound generator 10 in parallel with each other.

Each of the connecting spring plates 2 is made of phosphor bronze or stainless steel so as to have elasticity in whole, and formed into an L-shaped form [and] in plan view. The connecting spring plate 2 comprises a base end connecting portion 2A, intermediate portion 2C, branch portion 2D outwardly extending from the end of the intermediate portion 2C so as to form an L-shape together with the intermediate portion 2C, overlap portion 2E, and head end connecting portion 2B. [The branch portion 2D is extended away from the other connecting spring plate 2.] The [branch] overlap portion [2D of the spring plate 2 is turned] 2E is formed by turning an end portion of the branch portion in U-shape.

The base end connecting portion 2A is bent in L-shape and the head end connecting portion 2B is bent in U-shape as a connecting portion[s] between the sound generator and a printed circuit board.

The spring plate 2 is coated with nickel (Ni) by nickel plating as surface treatment. The surface of each of the connecting portion 2A to be connected to a terminal of the sound generator 10 is treated so that the connecting portion 2A can be connected to a terminal of the sound generator 10 by soldering. For example, the surface of the connecting portion 2A is coated with gold (Au) by gold plating or with a solder by solder plating. The surface of each connecting portion 2B to be connected to a terminal of the printed circuit